OriSafe DNA Stain

Catalog No	Size
• LC01A025	1 ml

Description:

OriSafe DNA Stain represents a new and safe class of nucleic acid stain for the visualization of double-stranded DNA, single-stranded DNA, and RNA in agarose and polyacrylamide gels. The product was developed to replace toxic Ethidium Bromide (EtBr, a potent mutagen), commonly used in gel electrophoresis for visualization of nucleic acids in agarose and polyacrylamide gels.

Component:

Components	LC01A025
20.000X OriSafe DNA Dye	1 ml

General Considerations:

- The dye is non-carcinogenic, but may cause skin and eye irritaions. It is recommended to wear gloves when working with this product.

- OriSafe can be used the same way as Ethidium Bromide in agarose and polyacrylamide gel electrophoresis. It emits green fluorescence when bound to dsDNA and ssDNA and red fluorescence when bound to RNA. This stain has same excitation at 488 nm and emission at 510 nm with Ethidium Bromide.

- OriSafe DNA Dye can be stored at room temperature.

Recommended Protocol:

- Prepare a 100 ml agarose solution.
- Add 5 µl OriSafe to the gel solution.
- Mix gently; the solution without air bubbles.
- Let the solution cool down to 40 -60^{o}C and cast the gel.
- Run gel electrophoresis with 5 µl OriSafe per 100 ml buffer.
- View the results under UV transilluminator.

Storage Conditions:

For long term storage 4 ºC is recommended, but the product can be stored at room temperature.

Quality Control:

Agarose and polyacrylamide gel electroforesis runs were performed with different volumes.

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